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Group Art Unit: 3723

**Examiner:** Alvin J. Grant

**For:       Articles for Polishing  
Semiconductor Substrates**

**CERTIFICATE OF MAILING**  
37 CFR 1.8

I hereby certify that this correspondence is being deposited on 6/29, 2005 with the United States Postal Service as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

6/29/05 

Date Signature

Dear Sir:

The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

07/05/2005 CNGUYEN2 00000001 200702 10026654  
01 FC:1806 180.00 DA

The Commissioner is hereby authorized to charge the sum of \$180.00 due under 37 CFR § 1.17(p) pursuant to § 1.97, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/5765/KMT.

Respectfully submitted,



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Attorney for Applicant(s)

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PTO/SB/08a (08-03)

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# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 14

|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/026,854           |
| Filing Date            | DECEMBER 20, 2001    |
| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
| Attorney Docket Number | AMAT/5765/PPC/CMP/AG |
| Submission Date        | JUNE 21, 2005        |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A1                    | US-1,601,642                             | 9/28/1926                      | Parker                                             |                                                                                 |
|                    | A2                    | US-1,927,162                             | 9/19/1933                      | Fiedler et al.                                     |                                                                                 |
|                    | A3                    | US-2,112,691                             | 3/29/1938                      | Crowder                                            |                                                                                 |
|                    | A4                    | US-2,240,265                             | 4/29/1941                      | Nachtman                                           |                                                                                 |
|                    | A5                    | US-2,392,687                             | 1/8/1946                       | Nachtman                                           |                                                                                 |
|                    | A6                    | US-2,431,065                             | 11/18/1947                     | Miller                                             |                                                                                 |
|                    | A7                    | US-2,451,341                             | 10/12/1948                     | Jemstedt                                           |                                                                                 |
|                    | A8                    | US-2,453,481                             | 11/9/1948                      | Wilson                                             |                                                                                 |
|                    | A9                    | US-2,454,935                             | 11/30/1948                     | Miller                                             |                                                                                 |
|                    | A10                   | US-2,456,185                             | 12/14/1948                     | Grube                                              |                                                                                 |
|                    | A11                   | US-2,457,510                             | 12/28/1948                     | van Ornum                                          |                                                                                 |
|                    | A12                   | US-2,458,676                             | 1/11/1949                      | Brenner et al.                                     |                                                                                 |
|                    | A13                   | US-2,461,556                             | 2/15/1949                      | Lorig                                              |                                                                                 |
|                    | A14                   | US-2,473,290                             | 6/14/1949                      | Millard                                            |                                                                                 |
|                    | A15                   | US-2,477,808                             | 8/2/1949                       | Jones                                              |                                                                                 |
|                    | A16                   | US-2,479,323                             | 8/16/1949                      | Davis                                              |                                                                                 |
|                    | A17                   | US-2,480,022                             | 8/23/1949                      | Hogaboom                                           |                                                                                 |
|                    | A18                   | US-2,490,055                             | 12/6/1949                      | Hoff                                               |                                                                                 |

## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document                                                           | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |                |
|                    | B1                    | EP 1 361 023                                                                      | 11/12/2003                     | Applied Materials                                  |                                                                                 |                |
|                    | B2                    | JP 58-171264 (English abstract)                                                   | 10/7/1983                      | Nitto Electric                                     |                                                                                 | X              |
|                    | B3                    | JP 61-079666 (English abstract)                                                   | 4/23/1986                      | Fujitsu                                            |                                                                                 | X              |
|                    | B4                    | JP 61-265279 (English abstract)                                                   | 11/25/1986                     | Tohoku Metal Ind. Ltd.                             |                                                                                 | X              |
|                    | B5                    | JP 63-028512 (English abstract)                                                   | 2/6/1988                       | Hitachi Ltd.                                       |                                                                                 | X              |

Examiner

Date Considered

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Sheet 2

of 14

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| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
| Attorney Docket Number | AMAT/5765/PPC/CMP/AG |
| Submission Date        | JUNE 29, 2005        |

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|                    | A19                   | US-2,495,695                             | 1/31/1950                      | Camin et al.                                       |                                                                                 |
|                    | A20                   | US-2,500,205                             | 3/14/1950                      | Schaefer                                           |                                                                                 |
|                    | A21                   | US-2,500,206                             | 3/14/1950                      | Schaefer et al.                                    |                                                                                 |
|                    | A22                   | US-2,503,863                             | 4/11/1950                      | Bart                                               |                                                                                 |
|                    | A23                   | US-2,506,794                             | 5/9/1950                       | Kennedy et al.                                     |                                                                                 |
|                    | A24                   | US-2,509,304                             | 5/30/1950                      | Klein                                              |                                                                                 |
|                    | A25                   | US-2,512,328                             | 6/20/1950                      | Hays                                               |                                                                                 |
|                    | A26                   | US-2,517,907                             | 8/8/1950                       | Mikulas                                            |                                                                                 |
|                    | A27                   | US-2,519,945                             | 8/22/1950                      | Twele et al.                                       |                                                                                 |
|                    | A28                   | US-2,530,677                             | 11/21/1950                     | Berkenkotter et al.                                |                                                                                 |
|                    | A29                   | US-2,535,966                             | 12/26/1950                     | Teplitz                                            |                                                                                 |
|                    | A30                   | US-2,536,912                             | 1/2/1951                       | Cobertt                                            |                                                                                 |
|                    | A31                   | US-2,539,898                             | 1/30/1951                      | Davis                                              |                                                                                 |
|                    | A32                   | US-2,540,175                             | 2/6/1951                       | Rosenqvist                                         |                                                                                 |
|                    | A33                   | US-2,544,510                             | 3/6/1951                       | Prahl                                              |                                                                                 |
|                    | A34                   | US-2,549,678                             | 4/17/1951                      | Fiandt                                             |                                                                                 |
|                    | A35                   | US-2,554,943                             | 5/13/1951                      | Farmer                                             |                                                                                 |
|                    | A36                   | US-2,556,017                             | 6/5/1951                       | Vonada                                             |                                                                                 |

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|                    | B6                    | JP 05-277957 (English abstract)                                                   | 10/26/1993                     | Nippon Micro Kooteingu KK                          |                                                                                 | X              |
|                    | B7                    | JP 10-006213 (English abstract)                                                   | 1/13/1998                      | Tokyo Seimitsu Co Ltd                              |                                                                                 | X              |
|                    | B8                    | JP 11-329961 Now JP 2870537<br>(English abstract)                                 | 3/17/1999                      | NEC Corp                                           |                                                                                 | X              |
|                    | B9                    | JP 11-239961 (English abstract)                                                   | 7/09/1999                      | NEC Corp                                           |                                                                                 | X              |

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Date Considered

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(Use as many sheets as necessary)

Sheet 3

of 14

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| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
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|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A37                   | US-2,560,534                             | 7/17/1951                      | Adler                                              |                                                                                 |
|                    | A38                   | US-2,560,966                             | 7/17/1951                      | Lee                                                |                                                                                 |
|                    | A39                   | US-2,569,577                             | 10/2/1951                      | Reading                                            |                                                                                 |
|                    | A40                   | US-2,569,578                             | 10/2/1951                      | Rieger                                             |                                                                                 |
|                    | A41                   | US-2,571,709                             | 10/16/1951                     | Gray                                               |                                                                                 |
|                    | A42                   | US-2,576,074                             | 11/20/1951                     | Nachtman                                           |                                                                                 |
|                    | A43                   | US-2,587,630                             | 3/4/1952                       | Konrad et al.                                      |                                                                                 |
|                    | A44                   | US-2,619,454                             | 11/25/1952                     | Zapponi                                            |                                                                                 |
|                    | A45                   | US-2,633,452                             | 3/31/1953                      | Hogaboom, Jr., et al.                              |                                                                                 |
|                    | A46                   | US-2,646,398                             | 7/21/1953                      | Henderson                                          |                                                                                 |
|                    | A47                   | US-2,656,283                             | 10/20/1953                     | Fink et al.                                        |                                                                                 |
|                    | A48                   | US-2,656,284                             | 10/20/1953                     | Toulmin                                            |                                                                                 |
|                    | A49                   | US-2,657,177                             | 10/27/1953                     | Rendel                                             |                                                                                 |
|                    | A50                   | US-2,657,457                             | 11/3/1953                      | Toulmin                                            |                                                                                 |
|                    | A51                   | US-2,673,836                             | 3/30/1954                      | Vonada                                             |                                                                                 |
|                    | A52                   | US-2,674,550                             | 4/6/1954                       | Dunlevy et al.                                     |                                                                                 |
|                    | A53                   | US-2,675,348                             | 4/13/1954                      | Greenspan                                          |                                                                                 |
|                    | A54                   | US-2,680,710                             | 6/8/1954                       | Kenmore et al.                                     |                                                                                 |

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|                    | B10                   | JP 2000-218513 (English abstract)                                                 | 8/8/2000                       | NEC Corp                                           |                                                                                 | X              |
|                    | B11                   | JP 2001-179611 (English abstract)                                                 | 7/3/2001                       | NEC Corp                                           |                                                                                 | X              |
|                    | B12                   | JP 2001-244223 (English abstract)                                                 | 9/7/2001                       | Hitachi Chem Co Ltd                                |                                                                                 | X              |
|                    | B13                   | KR 2003-037158 (English abstract)                                                 | 5/12/2003                      | Samsung Electronics Co.                            |                                                                                 | X              |
|                    | B14                   | SU 1618538 (English abstract)                                                     | 1/7/1991                       | Rredriyatie                                        |                                                                                 | X              |

Examiner

Date Considered

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|                    | A55                   | US-2,684,939                             | 7/27/1954                      | Geese                                              |                                                                                 |
|                    | A56                   | US-2,689,215                             | 9/14/1954                      | Bart                                               |                                                                                 |
|                    | A57                   | US-2,695,269                             | 11/23/1954                     | de Witz et al.                                     |                                                                                 |
|                    | A58                   | US-2,696,859                             | 12/14/1954                     | Somma                                              |                                                                                 |
|                    | A59                   | US-2,698,832                             | 1/4/1995                       | Swanson                                            |                                                                                 |
|                    | A60                   | US-2,706,173                             | 4/12/1955                      | Wells et al.                                       |                                                                                 |
|                    | A61                   | US-2,706,175                             | 4/12/1955                      | Licharz                                            |                                                                                 |
|                    | A62                   | US-2,708,445                             | 5/17/1955                      | Manson et al.                                      |                                                                                 |
|                    | A63                   | US-2,710,834                             | 6/14/1955                      | Vrilakas                                           |                                                                                 |
|                    | A64                   | US-2,711,993                             | 6/28/1955                      | Lyon                                               |                                                                                 |
|                    | A65                   | US-3,162,588                             | 12/22/1964                     | Bell                                               |                                                                                 |
|                    | A66                   | US-3,334,041                             | 8/1/1967                       | Dyer et al.                                        |                                                                                 |
|                    | A67                   | US-3,433,730                             | 3/18/1969                      | Kennedy et al.                                     |                                                                                 |
|                    | A68                   | US-3,448,023                             | 6/3/1969                       | Bell                                               |                                                                                 |
|                    | A69                   | US-3,476,677                             | 11/4/1969                      | Corley et al.                                      |                                                                                 |
|                    | A70                   | US-3,607,707                             | 9/21/1971                      | Chenevier                                          |                                                                                 |
|                    | A71                   | US-3,873,512                             | 3/25/1975                      | Latanision                                         |                                                                                 |
|                    | A72                   | US-3,942,959                             | 3/9/1976                       | Markoo, et al.                                     |                                                                                 |

A73

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|                    | B15                   | WO 93/15879                                                                       | 8/19/1993                      | 3M Co.                                             |                                                                                 |                |
|                    | B16                   | WO 99/41434                                                                       | 8/19/1999                      | ACM Research                                       |                                                                                 |                |
|                    | B17                   | WO 99/53119                                                                       | 10/21/1999                     | ACM Research                                       |                                                                                 |                |
|                    | B18                   | WO 99/65072                                                                       | 12/16/1999                     | Speedfam-IPEC Corp                                 |                                                                                 |                |
|                    | B19                   | WO 00/03426                                                                       | 1/20/2000                      | ACM Research                                       |                                                                                 |                |

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Sheet 5

of 14

|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/026,854           |
| Filing Date            | DECEMBER 20, 2001    |
| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
| Attorney Docket Number | AMAT/5765/PPC/CMP/AG |
| Submission Date        | JUNE 29, 2005        |

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|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A73                   | US-3,992,178                             | 11/16/1976                     | Markoo, et al.                                     |                                                                                 |
|                    | A74                   | US-4,047,902                             | 9/13/1977                      | Wiand                                              |                                                                                 |
|                    | A75                   | US-4,082,638                             | 4/4/1978                       | Jumer                                              |                                                                                 |
|                    | A76                   | US-4,119,515                             | 10/10/1978                     | Costakis                                           |                                                                                 |
|                    | A77                   | US-4,125,444                             | 11/14/1978                     | Inoue                                              |                                                                                 |
|                    | A78                   | US-4,312,716                             | 1/26/1982                      | Maschler et al.                                    |                                                                                 |
|                    | A79                   | US-4,523,411                             | 6/18/1985                      | Freerks                                            |                                                                                 |
|                    | A80                   | US-4,704,511                             | 11/3/1987                      | Miyano                                             |                                                                                 |
|                    | A81                   | US-4,713,149                             | 12/15/1987                     | Hoshino                                            |                                                                                 |
|                    | A82                   | US-4,752,371                             | 6/21/1988                      | Kreisel et al.                                     |                                                                                 |
|                    | A83                   | US-4,772,361                             | 9/20/1988                      | Dorsett, et al.                                    |                                                                                 |
|                    | A84                   | US-4,934,102                             | 6/19/1990                      | Leach, et al                                       |                                                                                 |
|                    | A85                   | US-4,954,141                             | 9/4/1990                       | Takiyama et al.                                    |                                                                                 |
|                    | A86                   | US-4,956,056                             | 9/11/1990                      | Zubatova, et al                                    |                                                                                 |
|                    | A87                   | US-5,011,510                             | 4/30/1991                      | Hayakawa, et al.                                   |                                                                                 |
|                    | A88                   | US-5,061,294                             | 10/29/1991                     | Harmer, et al.                                     |                                                                                 |
|                    | A89                   | US-5,066,370                             | 11/19/1991                     | Andreshak et al.                                   |                                                                                 |
|                    | A90                   | US-5,096,550                             | 3/17/1992                      | Mayer et al.                                       |                                                                                 |

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|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |                |
|                    | B20                   | WO 00/26443                                                                       | 5/11/2000                      | Nu Tool, Inc.                                      |                                                                                 |                |
|                    | B21                   | WO 00/33356                                                                       | 06/08/2000                     | ACM Research                                       |                                                                                 |                |
|                    | B22                   | WO 00/59645                                                                       | 10/12/2000                     | Ormet Corporation                                  |                                                                                 |                |
|                    | B23                   | WO 00/59682                                                                       | 10/12/2000                     | Nu Tool, Inc.                                      |                                                                                 |                |
|                    | B24                   | WO 01/13416                                                                       | 02/22/2001                     | Nu Tool, Inc.                                      |                                                                                 |                |

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Sheet 6

of 14

|                        |                      |
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| First Named Inventor   | LI, ET AL.           |
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|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A91                   | US-5,108,463                             | 4/28/1992                      | Buchanan                                           |                                                                                 |
|                    | A92                   | US-5,137,542                             | 8/11/1992                      | Buchanan, et al.                                   |                                                                                 |
|                    | A93                   | US-5,203,884                             | 4/20/1993                      | Buchanan, et al.                                   |                                                                                 |
|                    | A94                   | US-5,235,139                             | 8/10/1993                      | Bengston, et al.                                   |                                                                                 |
|                    | A95                   | US-5,257,478                             | 11/2/1993                      | Hyde et al.                                        |                                                                                 |
|                    | A96                   | US-5,328,716                             | 7/12/1994                      | Buchanan                                           |                                                                                 |
|                    | A97                   | US-5,370,766                             | 12/6/1994                      | Desaigoudar, et al.                                |                                                                                 |
|                    | A98                   | US-5,380,560                             | 1/10/1995                      | Kaja, et al.                                       |                                                                                 |
|                    | A99                   | US-5,478,435                             | 12/26/1995                     | Murphy, et al.                                     |                                                                                 |
|                    | A100                  | US-5,510,216                             | 4/23/1996                      | Calabrese, et al.                                  |                                                                                 |
|                    | A101                  | US-5,529,863                             | 6/25/1996                      | Swirbel, et al.                                    |                                                                                 |
|                    | A102                  | US-5,534,106                             | 7/9/1996                       | Cote, et al.                                       |                                                                                 |
|                    | A103                  | US-5,543,032                             | 8/6/1996                       | Datta, et al                                       |                                                                                 |
|                    | A104                  | US-5,545,927                             | 8/13/1996                      | Farooq, et al.                                     |                                                                                 |
|                    | A105                  | US-5,560,753                             | 10/1/1996                      | Schnabel et al.                                    |                                                                                 |
|                    | A106                  | US-5,562,529                             | 10/8/1996                      | Kishii, et al.                                     |                                                                                 |
|                    | A107                  | US-5,567,300                             | 10/22/1996                     | Datta, et al                                       |                                                                                 |
|                    | A108                  | US-5,575,706                             | 11/19/1996                     | Tsai, et al                                        |                                                                                 |

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|                    | B25                   | WO 01/52307                                                                       | 07/19/2001                     | Nu Tool, Inc.                                      |                                                                                 |                |
|                    | B26                   | WO 01/63018                                                                       | 08/30/2001                     | Nu Tool, Inc.                                      |                                                                                 |                |
|                    | B27                   | WO 01/71066                                                                       | 09/27/2001                     | Nu Tool, Inc.                                      |                                                                                 |                |
|                    | B28                   | WO 01/88229                                                                       | 11/22/2001                     | ACM Research                                       |                                                                                 |                |
|                    | B29                   | WO 01/88954                                                                       | 11/22/2001                     | Nu Tool, Inc.                                      |                                                                                 |                |

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Sheet 7

of 14

|                        |                      |
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| Application Number     | 10/026,854           |
| Filing Date            | DECEMBER 20, 2001    |
| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
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|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A109                  | US-5,578,362                             | 11/26/1996                     | Reinhardt et al.                                   |                                                                                 |
|                    | A110                  | US-5,624,300                             | 4/29/1997                      | Kishii, et al.                                     |                                                                                 |
|                    | A111                  | US-5,633,068                             | 5/27/1997                      | Ryoke et al.                                       |                                                                                 |
|                    | A112                  | US-5,654,078                             | 8/5/1997                       | Ferronato                                          |                                                                                 |
|                    | A113                  | US-5,674,122                             | 10/7/1997                      | Krech                                              |                                                                                 |
|                    | A114                  | US-5,702,811                             | 12/30/1997                     | Ho et al.                                          |                                                                                 |
|                    | A115                  | US-5,738,574                             | 4/14/1998                      | Tolles, et al.                                     |                                                                                 |
|                    | A116                  | US-5,755,859                             | 5/26/1998                      | Brusic, et al.                                     |                                                                                 |
|                    | A117                  | US-5,789,320                             | 8/4/1998                       | Andricacos, et al.                                 |                                                                                 |
|                    | A118                  | US-5,804,507                             | 9/8/1998                       | Perlov, et al.                                     |                                                                                 |
|                    | A119                  | US-5,807,165                             | 9/15/1998                      | Uzoh, et al                                        |                                                                                 |
|                    | A120                  | US-5,823,854                             | 10/20/1998                     | Chen                                               |                                                                                 |
|                    | A121                  | US-5,840,629                             | 11/24/1998                     | Carpio                                             |                                                                                 |
|                    | A122                  | US-5,840,190                             | 11/24/1998                     | Scholander, et al.                                 |                                                                                 |
|                    | A123                  | US-5,846,882                             | 12/8/1998                      | Birang                                             |                                                                                 |
|                    | A124                  | US-5,871,392                             | 2/16/1999                      | Meikle et al.                                      |                                                                                 |
|                    | A125                  | US-5,871,655                             | 2/16/1999                      | Lee, et al.                                        |                                                                                 |
|                    | A126                  | US-5,882,491                             | 3/16/1999                      | Wardle                                             |                                                                                 |

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|                    | B30                   | WO 02/064314                                                                      | 08/22/2002                     | Speedfam-IPEC Corp                                 |                                                                                 |                |
|                    | B31                   | WO 02/075804                                                                      | 09/26/2002                     | Applied Materials                                  |                                                                                 |                |
|                    | B32                   | WO 03/001581                                                                      | 01/03/2003                     | Micron Technology                                  |                                                                                 |                |
|                    |                       |                                                                                   |                                |                                                    |                                                                                 |                |
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|                    | A127                  | US-5,893,796                             | 4/13/1999                      | Birang et al.                                      |                                                                                 |
|                    | A128                  | US-5,898,222                             | 4/27/1999                      | Farooq, et al.                                     |                                                                                 |
|                    | A129                  | US-5,938,801                             | 8/17/1999                      | Robinson                                           |                                                                                 |
|                    | A130                  | US-5,948,697                             | 9/7/1999                       | Hata                                               |                                                                                 |
|                    | A131                  | US-5,985,093                             | 11/16/1999                     | Chen                                               |                                                                                 |
|                    | A132                  | US-6,001,008                             | 12/14/1999                     | Fujimori, et al.                                   |                                                                                 |
|                    | A133                  | US-6,004,880                             | 12/21/1999                     | Liu, et al                                         |                                                                                 |
|                    | A134                  | US-6,017,265                             | 1/25/2000                      | Cook et al.                                        |                                                                                 |
|                    | A135                  | US-6,074,284                             | 6/13/2000                      | Tani, et al.                                       |                                                                                 |
|                    | A136                  | US-6,077,337                             | 6/20/2000                      | Lee                                                |                                                                                 |
|                    | A137                  | US-6,090,239                             | 7/18/2000                      | Liu, et al                                         |                                                                                 |
|                    | A138                  | US-6,091,488                             | 7/18/2000                      | Bishop                                             |                                                                                 |
|                    | A139                  | US-6,114,097                             | 9/5/2000                       | Malba, et al.                                      |                                                                                 |
|                    | A140                  | US-6,116,998                             | 9/12/2000                      | Damgaard, et al.                                   |                                                                                 |
|                    | A141                  | US-6,153,043                             | 11/28/2000                     | Edelstein, et al.                                  |                                                                                 |
|                    | A142                  | US-6,156,124                             | 12/5/2000                      | Tobin                                              |                                                                                 |
|                    | A143                  | US-6,159,079                             | 12/12/2000                     | Zuniga, et al.                                     |                                                                                 |
|                    | A144                  | US-6,176,998                             | 1/23/2001                      | Wardle et al.                                      |                                                                                 |

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Sheet 9

of 14

|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/026,854           |
| Filing Date            | DECEMBER 20, 2001    |
| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
| Attorney Docket Number | AMAT/5765/PPC/CMP/AG |
| Submission Date        | JUNE 29, 2005        |

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|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
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|                    | A146                  | US-6,183,354                             | 2/6/2001                       | Zuniga, et al.                                     |                                                                                 |
|                    | A147                  | US-6,190,494                             | 2/20/2001                      | Dow                                                |                                                                                 |
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|                    | A153                  | US-6,255,187                             | 7/3/2001                       | Hori                                               |                                                                                 |
|                    | A154                  | US-6,261,168                             | 7/17/2001                      | Jensen et al.                                      |                                                                                 |
|                    | A155                  | US-6,261,959                             | 7/17/2001                      | Travis, et al.                                     |                                                                                 |
|                    | A156                  | US-6,265,086                             | 7/24/2001                      | Harkness                                           |                                                                                 |
|                    | A157                  | US-6,273,798                             | 8/14/2001                      | Berman                                             |                                                                                 |
|                    | A158                  | US-6,319,108                             | 11/20/2001                     | Adefris, et al.                                    |                                                                                 |
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|                    | A160                  | US-6,326,303                             | 12/4/2001                      | Robinson, et al.                                   |                                                                                 |
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|                    | A163                  | US-6,331,135                             | 12/18/2001                     | Sabde, et al.                                      |                                                                                 |
|                    | A164                  | US-6,368,184                             | 4/9/2002                       | Beckage                                            |                                                                                 |
|                    | A165                  | US-6,368,190                             | 4/9/2002                       | Easter, et al.                                     |                                                                                 |
|                    | A166                  | US-6,372,001                             | 4/16/2002                      | Omar, et al.                                       |                                                                                 |
|                    | A167                  | US-6,381,169                             | 4/30/2002                      | Bocian, et al.                                     |                                                                                 |
|                    | A168                  | US-6,383,066                             | 5/7/2002                       | Chen, et al.                                       |                                                                                 |
|                    | A169                  | US-6,386,956                             | 5/14/2002                      | Sato, et al.                                       |                                                                                 |
|                    | A170                  | US-6,391,166                             | 5/21/2002                      | Wang                                               |                                                                                 |
|                    | A171                  | US-6,395,152                             | 5/28/2002                      | Wang                                               |                                                                                 |
|                    | A172                  | US-6,402,591                             | 6/11/2002                      | Thornton                                           |                                                                                 |
|                    | A173                  | US-6,406,363                             | 6/18/2002                      | Xu et al.                                          |                                                                                 |
|                    | A174                  | US-6,409,904                             | 6/25/2002                      | Uzoh, et al.                                       |                                                                                 |
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|                    | A188                  | US-6,537,140                             | 3/25/2003                      | Miller, et al.                                     |                                                                                 |
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|                    | A190                  | US-6,551,179                             | 4/22/2003                      | Halley                                             |                                                                                 |
|                    | A191                  | US-6,561,889                             | 5/13/2003                      | Xu et al.                                          |                                                                                 |
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|                    | A209                  | US-2001/0055851                          | 12/27/2001                     | Hori                                               |                                                                                 |
|                    | A210                  | US-2002/0008036                          | 1/24/2002                      | Wang                                               |                                                                                 |
|                    | A211                  | US-2002/0011417                          | 1/31/2002                      | Talieh, et al.                                     |                                                                                 |
|                    | A212                  | US-2002/0020621                          | 2/21/2002                      | Uzoh, et al.                                       |                                                                                 |
|                    | A213                  | US-2002/0025760                          | 2/28/2002                      | Lee et al.                                         |                                                                                 |
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## **U.S. PATENT DOCUMENTS**

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|--------------------|-----------------------|------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|
|                    |                       | Number-Kind Code <sup>2</sup> (if known) |                                |                                                    |                                                                                 |
|                    | A217                  | US-2002/0088715                          | 7/11/2002                      | Talieh, et al.                                     |                                                                                 |
|                    | A218                  | US-2002/0108861                          | 8/15/2002                      | Emesh et al.                                       |                                                                                 |
|                    | A219                  | US-2002/0119286                          | 8/29/2002                      | Chen et al.                                        |                                                                                 |
|                    | A220                  | US-2002/0123300                          | 9/5/2002                       | Jones, et al.                                      |                                                                                 |
|                    | A221                  | US-2002/0127836                          | 9/12/2002                      | Lin, et al.                                        |                                                                                 |
|                    | A222                  | US-2002/0130049                          | 9/19/2002                      | Chen et al.                                        |                                                                                 |
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|                    | A227                  | US-2003/0034131                          | 2/20/2003                      | Park et al.                                        |                                                                                 |
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## **FOREIGN PATENT DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document                                                           | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages or<br>Relevant Figures Appear | T <sup>6</sup> |
|--------------------|-----------------------|-----------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------|---------------------------------------------------------------------------------|----------------|
|                    |                       | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known) |                                |                                                    |                                                                                 |                |
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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 14

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|                        |                      |
|------------------------|----------------------|
| Application Number     | 10/026,854           |
| Filing Date            | DECEMBER 20, 2001    |
| First Named Inventor   | LI, ET AL.           |
| Group Art Unit         | 3723                 |
| Examiner Name          | ALVIN J. GRANT       |
| Attorney Docket Number | AMAT/5765/PPC/CMP/AG |
| Submission Date        | JUNE 29, 2005        |

## **NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>2</sup> |
|--------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|                    | C1                    | Alexander, Jr., "Electrically Conductive Polymer Nanocomposite Materials", <a href="http://www.afrhorizons.com/Briefs/Sept02/ML0206.html">http://www.afrhorizons.com/Briefs/Sept02/ML0206.html</a> , Date Unknown.                                             |                |
|                    | C2                    | Contolini, "Electrochemical Planarization of ULSI Copper," Solid State Technology, Vol. 40, No. 6, June 1, 1997.                                                                                                                                               |                |
|                    | C3                    | Partial International Search / PCT Invitation to pay additional fees for PCT/US 02/11009 dated Nov. 14, 2002 (4100 PC 02)                                                                                                                                      |                |
|                    | C4                    | Notification regarding review of justification for invitation to pay additional fees for PCT/US/02/11009 (4100 PC 02) dated February 25, 2003.                                                                                                                 |                |
|                    | C5                    | International Search Report for PCT/US 02/11009 (4100 EP 02) dated February 25, 2003.                                                                                                                                                                          |                |
|                    | C6                    | PCT Written Opinion dated April 1, 2003 for PCT/US02/11009. (4100 EP 02)                                                                                                                                                                                       |                |
|                    | C7                    | Notification of Transmittal of International Preliminary Examination Report for PCT/US02/11009 dated November 10, 2003 (4100 EP 02)                                                                                                                            |                |
|                    | C8                    | European Search Report for 03252801.0, dated January 16, 2004 (7047 EP).                                                                                                                                                                                       |                |
|                    | C9                    | Communication pursuant to Article 96(2) EPC for Application No. 02728965.4, dated June 11, 2004 (4100 EP 02)                                                                                                                                                   |                |
|                    | C10                   | Copy of Search Report issued by the Austrian Patent Office for corresponding Singapore Patent Application No. 200302562-4, provided by letter dated October 7, 2004.                                                                                           |                |
|                    | C11                   | Invitation to pay additional fees for PCT/US04/017827 dated November 11, 2004 (4100 P5 PCT)                                                                                                                                                                    |                |
|                    | C12                   | Notification of Transmittal of International Search Report and Written Opinion for PCT/US04/22722 dated February 21, 2005 (4100 PCT)                                                                                                                           |                |
|                    | C13                   | PCT International Search Report and Written Opinion dated April 28, 2005 for PCT/US04/037870. (AMAT/4100PC09)                                                                                                                                                  |                |

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